

Full Text

STN

ACCESSION NUMBER: 1980-34734C [20] WPINDEX  
ENTRY DATE: 20050418  
TITLE: Prepn. of pyrimidine derivs. and nucleoside(s) - by  
nucleophilic substitution of 4-sulphonate derivs.  
ADDITIONAL WORDS: CYTOSTATIC ANTIBACTERIAL ANTIFUNGAL ANTIVIRAL ACTIVE  
DERWENT CLASS: B03; C02  
INVENTOR: BAERWOLFF D; DEMIROV G D; GOLOVINSKY E V  
PATENT ASSIGNEE: (DEAK-C) AKAD WISSENSCHAFTEN DDR  
COUNTRY COUNT: 1

## PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
DD 140254	A	19800220	(198020)	*	DE	

## APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
DD 140254 A		DD 1978-209494	19781204

## INT. PATENT CLASSIF.:

IPC RECLASSIF.: C07H0019-00 [I,C]; C07H0019-06 [N,A]; C07H0019-10 [I,A]

## BASIC ABSTRACT:

DD 140254 A UPAB: 20050418

Prepn. of pyrimidine derivs. of formula (I) is claimed. In (I) X is NH<sub>2</sub>, NHNH<sub>2</sub>, N(CH<sub>2</sub>CH<sub>2</sub>Cl)<sub>2</sub>, NHN(CH<sub>2</sub>CH<sub>2</sub>Cl)<sub>2</sub>, NHOH, N<sub>3</sub>, NHCH(R<sub>1</sub>)COOR<sub>2</sub>, SH, SR<sub>1</sub>, OR<sub>1</sub> ethylenimino or halogen, where R<sub>1</sub> is H, alkyl or aryl and R<sub>2</sub> is H or alkyl. Y is O, S or NH, Z is halogen, opt. substd. alkyl, aryl or alkoxy, R is aryl, alkyl a heterocyclic gp. or an OH-protected monosaccharide residue opt. esterified by phosphate or halogen. Cpds. (I) are prepd. by (a) reacting the corresp. cpd. where X = OH with a sulphonyl chloride in the presence of NaH, and (b) reacting the resulting sulphonate ester with XH or its salts. Step (a) is pref. effected at 0-100 degrees C (esp. room temp.) using R<sub>3</sub>SO<sub>2</sub>Cl (where R<sub>3</sub> is alkyl, alkaryl, or perfluoroalkyl).

Cpds. (I) have cytostatic, antibacterial, antifungal and antiviral activity. The process is simple and gives high yields (e.g. 5-82%) under mild conditions.

## FILE SEGMENT:

CPI

## MANUAL CODE:

CPI: B04-B03; B05-B01M; B07-D12; B12-A01; B12-A02;  
B12-A06; B12-G07; C04-B03; C05-B01M; C07-D12; C12-A01;  
C12-A02; C12-A06; C12-G07

## CHEMICAL CODE:

UPB 20050418

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